

a MAP lender and the written determination to overturn will be posted on HUD's MAP Web site.

APPENDIX A TO PART 200—STANDARDS INCORPORATED BY REFERENCE IN THE MINIMUM PROPERTY STANDARDS FOR HOUSING (HUD HANDBOOK 4910.1)

The following publications are incorporated by reference in the HUD Minimum Property Standards (MPS) in 24 CFR part 200. The MPS are available for public inspection and can be obtained for appropriate use at 490 L'Enfant Plaza East, Suite 3214, or at each HUD Regional, Area, and Service Office. Copies are available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. The individual standards referenced in the MPS are available at the address contained in the following table. They are also available for public inspection at the HUD, Manufactured Housing and Construction Standards Division, Suite 3214, 490 L'Enfant Plaza East, Washington, DC 20024.

Air Conditioning Contractors of America
1513 16th Street, NW., Washington, DC 20036, (202) 483-9370.

Load Calculation for Residential Winter and Summer Air Conditioning, Manual J 1986

Aluminum Association, 900 19th Street, NW., Washington, DC 20006, Telephone (202) 862-5100.

AA-ASM 35-80 Specifications for Aluminum Sheet Metal Work in Building Construction

American Architectural Manufacturers Association, 1540 East Dundee Road, Palatine, IL 60067, Telephone (708) 202-1350.

AAMA-800-92 Voluntary Specifications and Test Methods for Sealants

AAMA-1503.1-88 Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections

AAMA 1504-88 Voluntary Standards for Thermal Performance of Windows, Doors and Glazed Wall Sections

American Concrete Institute, P. O. Box 19150, Redford Station, Detroit, Michigan 48219, Telephone (313) 532-2600.

ACI 211.1-89 Standard Practice for Selecting Proportions for Normal, Heavyweight and Mass Concrete

ACI 211.2-91 Standard Practice for Selecting Proportions for Structural Lightweight Concrete

ACI 213R-87 Guide for Structural Lightweight Aggregate Concrete

ACI 301-89 Specifications for Structural Concrete for Buildings

ACI 302.1R-80 Guide for Concrete Floor and Slab Construction

ACI 304R-89 Guide for Measuring, Mixing, Transporting and Placing Concrete

ACI 305R-77 Hot Weather Concreting (Revised 1989)

ACI 306R-78 Cold Weather Concreting (Revised 1988)

ACI 311.4R-80 Guide for Concrete Inspection (Revised 1988)

ACI 315-80 Guide for Detailing of Concrete Reinforcement

ACI 318-89 Building Code Requirements for Reinforced Structural Plain Concrete (Revised 1992)

ACI 322-72 Structural Plain Concrete

ACI 347-78 Recommended Practice for Concrete Formwork (Reapproved 1984)

ACI 504R-77 Guide to Joint Sealants for Concrete Structures

ACI 506-90 Recommended Practice for Shotcreting

ACI 515.1R-79 A Guide to the Use of Waterproofing, Dampproofing, Protective and Decorative Barrier Systems for Concrete (Revised 1985)

ACI 533.1R-69 Quality Standards and Tests for Precast Concrete Wall Panels

ACI 533.2R-69 Selection and Use of Materials for Precast Concrete Wall Panels

ACI 533.3R-70 Fabrication, Handling and Erection of Precast Concrete Wall Panels

American Forest & Paper Association, (formerly National Forest Products Association), 1250 Connecticut Ave., NW., Washington, DC 20036, National Design Specification for Wood Construction—1991.

American National Standards Institute, 11 West 42nd Street, New York, NY 10036, Telephone (212) 642-4900.

ANSI A108.1A-92 Specifications for Installation of Ceramic Tile, in the Wet Set Method with Portland Cement Mortar

ANSI A137.1-1988 Specifications for Ceramic Tile

ANSI/BHMA A156.2-1989 Standard for Bored and Preassembled Locks and Latches

ANSI/NKCA A161.1-1985 Recommended Performance and Construction Standards for Kitchen and Vanity Cabinets (Approved March 18, 1986)

ANSI A208.1-1989 Wood Particleboard

ANSI/AAMA 101-1988 Voluntary Specifications for Aluminum Prime Windows and Sliding Glass Doors

ANSI/AAMA 1002.10-1983 Voluntary Specifications for Aluminum Insulating Storm Products for Windows and Sliding Glass Doors

ANSI/AAMA 1102.7-1989 Voluntary Specifications for Aluminum Storm Doors

ANSI/AAMA 1402-1986 Standard Specifications for Aluminum Siding, Soffit and Fascia (ANSI Approved 1989)

ANSI/ACI 214-77 Recommended Practice for Evaluation of Strength Test Results of Concrete (Reapproved 1983)

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ANSI/AHA A135.4-1982 Basic Hardboard (Reaffirmed 1988)
ANSI/AHA A135.6-1990 Hardboard Siding
ANSI/AHA A194.1-1985 Cellulosic Fiber Board
ANSI/APA 1-1984 Mosaic-Parquet Hardboard Slat Flooring
ANSI/NSPI-1-91 Standard for Public Swimming Pools
ANSI Z34.1-1987 American National Standard for Certification, Third-Party Certification Program
ANSI Z124.5-1989 American National Standard for Plastic Toilet Seats (Water Closet Seats)
American Society of Civil Engineers, 345 East 47th Street, New York, NY 10017.
ASCE 7-88 Minimum Design Loads for Buildings and Other Structures (Formerly ANSI A58.1)
American Society of Mechanical Engineers, 345 E 47th Street, New York, NY 10017.
ASME/ANSI A17.1-87 Safety Code for Elevators and Escalators Including the A17.1b-89 Addenda
ASME A 112.18.1M89 Plumbing Fixture Fittings
American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, Telephone (215) 299-5400.
ASTM C 12-91 Standard Practice for Installing Vitrified Clay Pipe Lines
ASTM C 208-72 Insulating Board (Cellulosic Fiber), Structural and Decorative (Reapproved 1982)
ASTM C 209-84 Standard Methods of Testing Insulating Board (Cellulosic Fiber), Structural and Decorative
ASTM C 216-91c Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)
ASTM C 220-91 Standard Specification for Flat Asbestos-Cement Sheets
ASTM C 221-91 Standard Specification for Corrugated Asbestos-Cement Sheets
ASTM C 223-91 Standard Specification for Asbestos-Cement Siding
ASTM C 509-91 Standard Specification for Elastomeric Cellular Preformed Gasket and Sealing Material
ASTM C 516-80 Standard Specification for Vermiculite Loose Fill Thermal Insulation (Reapproved 1985)
ASTM C 549-81 Standard Specification for Perlite Loose Fill Insulation (Reapproved 1986)
ASTM C 578-92 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
ASTM C 640-83 Standard Specification for Insulation Board, Thermal (Cork)
ASTM C 726-88 Standard Specification for Mineral Fiber and Roof Insulation Board
ASTM C 739-91 Standard Specification for Cellulosic Fiber (Wood-Based) Loose-Fill Thermal Insulation

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ASTM C 754-88 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum
ASTM C 834-91 Standard Specification for Latex Sealants
ASTM C 841-90 Standard Specification for Installation of Interior Lathing and Furring
ASTM C 842-85 Standard Specification for Application of Interior Gypsum Plaster (Reapproved 1990)
ASTM C 843-92 Standard Specification for Application of Gypsum Veneer Plaster
ASTM C 844-85 Standard Specification for Application of Gypsum Base to Receive Gypsum Veneer Plaster
ASTM C 846-76 Standard Practice for Application of Structural Insulating Board (Fiberboard) Sheathing (Reapproved 1982)
ASTM C 864-90 Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks and Spacers.
ASTM C 926-90 Standard Specification for Application of Portland Cement-Based Plaster
ASTM C 1036-91 Standard Specification for Flat Glass
ASTM D 1037-89 Standard Test Methods for Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials
ASTM C 1048-91 Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass
ASTM D 1557-91 Test Method for Laboratory Compaction Characteristics of Soil Using the Modified Method (56,000 ft-lbf/ft³ (2,700 kN-m/m³))
ASTM D 2316-75 Standard Recommended Practice for Installing Bituminized Fiber Drain and Sewer Pipe (Reapproved 1984)
ASTM D 2321-89 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications
ASTM D 3656-89 Standard Specifications for Insect Screening and Louver Cloth Woven From Vinyl-Coated Glass Yarns
ASTM D 3679-92 Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding
ASTM E 72-80 Standard Methods of Conducting Strength Tests of Panels for Building Construction
ASTM E 283-91 Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Spectrum
ASTM E 330-90 Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
ASTM E 331-86 Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference

- ASTM E 380-91a Standard Practices for Use of the International Systems of Units (SI) (the Modernized Metric System)
- American Society of Heating, Refrigerating and Air Conditioning Engineers, 1791 Tullie Circle, NE, Atlanta, GA 30329.
- ASHRAE Handbook—Fundamentals—1989. ASHRAE Cooling and Heating Load Calculation Manual—GRP 158 1979.
- ASHRAE Handbook—Equipment—1988.
- ASHRAE Handbook—HVAC Systems and Applications—1987.
- American Welding Society, 550 NW Le Jeune Road, P. O. Box 351040, Miami, FL 33126, Telephone (305) 443-9353. ANSI/AWS D1.1-90 Structural Welding Code—Steel. ANSI/AWS D1.4-79 Structural Welding Code—Reinforcing Steel.
- The Asphalt Institute, Asphalt Institute Building, College Park, MD 20740 Telephone (301) 277-4258.
- MSI-1-81 Thickness Design—Asphalt Pavements for Highways and Streets
- Asphalt Roofing Manufacturers Association, 6288 Montrose Road, Rockville, MD 20852, Telephone (301) 231-9050. Residential Asphalt Roofing Manual—1988.
- Carpet and Rug Institute, 310 Holiday Avenue, Box 2048, Dalton, GA 30722-0048, Telephone (404) 278-3176. How to Specify Commercial Carpet Installation, 1984.
- Council of American Building Officials, Suite 708, 5203 Leesburg Pike, Falls Church, VA 22041, Telephone (703) 931-4533. CABO One and Two Family Dwelling Code 1992 edition with Errata Package and 1993 Amendments. CABO Model Energy Code 1992 edition CABO/ANSI A117.1-92 Accessible and Usable Buildings and Facilities.
- Department of Agriculture, Publications Division, 14th and Independence Avenue, SW., Washington, DC 20050, Telephone (202) 447-3957.
- Agriculture Handbook No. 73, Wood Frame House Construction
- Home and Garden Bulletin No. 64. Subterranean Termites—Their Prevention and Control in Buildings, October 1983
- Home and Garden Bulletin No. 73, Wood Decay in Houses, How to Prevent and Control It, May 1986
- Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland 20899, Telephone (301) 975-4025. PS 1-83 Product Standard for Construction and Industrial Plywood with Typical APA Trademarks. PS 2-92 Performance Standard for Wood-Based Structural-Use Panels.
- Commercial Standards:
- CS 138-55 Insect Wire Screening
- CS 242-62 1 3/4" Steel Doors & Frames
- Department of Defense, Naval Publication and Forms Center, 5801 Taber Road, Philadelphia, PA 19120, Telephone (215) 697-2179.
- Federal Specifications:
- L-S-125B Screening, Insect, Non-metallic February 3, 1972
- L-F-001641 Floor Covering Translucent or Transparent Vinyl Surface with Backing—1971 and Amendment 2—September 24, 1982
- L-F-00450A Flooring, Vinyl Plastic (GSAFSS)—1970 and Amendment 1, August 5, 1975
- L-F-475A Floor Covering Vinyl, Surface Tile and Roll, with Backing including Amendment 2—February 9, 1971
- HH-I-521F Insulation Blankets, Thermal (Mineral Fiber—for Ambient Temperatures—1980)
- HH-I-526C Insulation Board, Thermal (Mineral Fiber)—1968
- HH-I-529B Insulation Board, Thermal (Mineral Aggregate)—1971
- HH-I-530B Insulation Board, Thermal, Unfaced, Polyurethane or Polyisocyanurate and Interim I—1982
- HH-I-551E Insulation Block and Boards, Thermal (Cellular Glass) Fiber, for Ambient Temperatures, 1974
- HH-I-558B Insulation Blocks, Boards, Blankets, Felts Sleeving (Pipe and Tube Covering), and Pipe Fitting Covering, Thermal (Mineral Fiber, Insulation Type) and Amendment 3—1976
- HH-I-574B Insulation, Thermal (Perlite) and Interim Amendment—1976
- HH-I-585C Insulation, Thermal (Vermiculite) and Interim Amendment 1—1976
- HH-I-1030B Insulation, Thermal (Mineral Fiber, for Pneumatic or Poured Application)—1980
- HH-I-1252B Insulation, Thermal Reflective, (Aluminum Foil) and Interim Amendment 1—1976
- HH-I-1972 Insulation Board, Thermal, Faced, Gen; 1, 2, 3, Polyurethane and Polyisocyanurate and 4, 5 & 6 Amendments—1985
- L-L-I-535B Insulation Board, Thermal, Cellulosic Fiber, 1977
- SS-S-346C Siding (Shingles, Clapboards, and Sheets) 1968
- SS-T-312B Tile, Floor: Asphalt, Rubber, Vinyl-Composition and Interim Amendment—1979
- Department of Housing and Urban Development, 451 Seventh Street, SW., Mail Room B-133, Washington, DC 20410, Telephone (202) 755-7440.
- Handbooks:
- 4940.2-1973 Minimum Design Standards for Community Water Supply Systems
- 4940.3-1992 Minimum Design Standards for Community Sewerage Systems (Rev. 1-92)
- 4950.1-1988 Technical Suitability of Products Program, Technical and Processing Procedures (Rev. 2 which includes revisions and changes through October 24, 1991)

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- 4930.2-1989 HUD Intermediate MPS Supplement, Solar Heating & Domestic Hot Water Systems
- Use of Materials Bulletins:
- 25d Power Driven, Mechanically Driven and Manually Driven Fasteners—9/5/73
- 38h Grademarking of Lumber—7/31/79
- 44c HUD/FHA Standard for Carpet and Carpet Certification Program—2/22/78 (Plus Addendum 1 & 2)
- 48 Labels of Independent Programs for Certifying Pressure-Treated Lumber and Plywood (Plus 5 Supplements—11/15/67)
- 52a Quality Certification and Labeling for Wood Flush Doors—10/7/75
- 58a Acrylic Plastic Sheets for Glazing—9/2/75
- 60 Field Glued Plywood & Wood Frame Structural Floor Systems—12/9/70
- 62a Factory-Applied Laminated Roofing Systems Based on Chlorosulfonated Polyethylene (CPSE)—11/16/72
- 65 Controlled Density Cellular Concrete Floor Fill—10/11/73
- 67 Polycarbonate Plastic Sheets for Glazing—9/3/75
- 70a Particleboard Interior Stair Treads and Certification Program—5/19/82
- 71 Polystyrene Foam Insulation Sheathing Board—1/10/77
- 72 HUD Standard for Carpet Cushion—2/6/80
- 76 Chlorinated Poly (Vinyl Chloride) CPVC and Polybutylene (PB) Hot and Cold Water Distribution—4/25/78
- 77a Cast Iron Sanitary Drainage System with Hubless Pipe and Fittings—3/28/80
- 78 Polyethylene (PE), Acrylonitrile-Butadiene-Styrene (ABS), Poly Vinyl Chloride (PVC) and Polybutylene (PB) Plastic Piping for Domestic Cold Water Service—4/25/78
- 79a Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste and Vent Pipe and Fittings—3/7/82
- 80 Spray Applied Cellulosic Thermal Insulation—10/31/79
- 101 HUD Building Product Standards and Certification Program for Exterior Wall Insulation and Finish Systems, July 26, 1993
- Environmental Protection Agency, Office of Drinking Water, 401 M Street, SW., Washington, DC 20460, Telephone (202) 382-5533.
- EPA 570/9-82-004 Manual of Individual Water Supply (NTIS-PB 85242279) Systems (October 1982)
- Flat Glass Marketing Association, White Lakes Professional, Building 3310 Harrison Street, Topeka, KS 66611, Telephone (913) 266-7013. FGMA Glazing Manual—1986. FGMA Sealant Manual—1990.
- Hardwood Plywood Manufacturers Association, P.O. Box 2789, 1825 Michael Faraday Drive, Reston, VA 22090, Telephone (703) 435-2900. ANSI/HPMA LHF-1987 Laminated Hardwood Flooring.
- Insect Screening Weavers Assn., 2000 Maple Hill Street, P.O. Box 309, Yorktown Heights, NY 10598. IWS-089 Insect Wire Screening (Wire Fabric).
- National Academy of Sciences, 2101 Constitution Avenue, NW., Washington, DC 20418. Publication 1571 Criteria for Selection and Design of Residential Slabs-on-Ground, Report #33, Building Research Advisory Board (BRAB), 1968.
- National Association of Home Builders, Research Center, 400 Prince Georges Boulevard, Upper Marlboro, MD 20772, Telephone (301) 249-4000. Insulation Manual, Homes and Apartments—1979.
- National Association of Plumbing-Heating-Cooling Contractors, P.O. Box 6808, Falls Church, VA 22046, Telephone (703) 237-8100. National Standard Plumbing Code—1993.
- National Fire Protection Association, Batterymarch Park, Quincy, MA 02269, Telephone 1-800-344-3555.
- ANSI/NFPA 58-89 Standard for the Storage and Handling of Liquefied Petroleum Gases
- NFPA 54-88 National Fuel Gas Code (ANSI Z223.1-1988) NFPA 70-93 National Electrical Code
- National Institute of Building Sciences, 1201 L Street, NW., Washington, DC 20005. Metric Guide for Federal Construction—1992.
- National Oak Flooring Manufacturers Association, 22 North Front Street, Memphis, TN 38103. Official Grading Rules, Oak, Beech, Birch, Hard Maple, Pecan (OFGR/Vol. 1, No. 1/1986 and the 1989 Addendum). Hardwood Flooring Finishing/Refinishing Manual, 1986. Hardwood Flooring Installation Manual, 1986.
- National Roofing Contractors Association, One O'Hare Centre, 6250 River Road, Rosemont, IL 60018, Telephone (708) 318-6722. NRCA Roofing and Waterproofing Manual, 1989.
- National Terrazzo and Mosaic Association, 3166 Des Plaines Avenue, Suite 132, Des Plaines, IL 60018, Telephone (708) 635-7744. NTMA Specifications, Details and Technical Data, "Terrazzo Ideas & Design Guide", 1990.
- National Wood Window and Door Association, 205 West Touhy Avenue, Park Ridge, IL 60018, Telephone (708) 299-5200.
- ANSI/NWWDA IS 1-87 Industry Standard for Wood Flush Doors
- ANSI/NWWDA IS 2-87 Industry Standard for Wood Windows
- NWWDA IS 3-88 Industry Standard for Wood Sliding Patio Doors
- ANSI/NWWDA IS 6-86 Industry Standard for Wood Stile and Rail Doors
- Post-tensioning Institute, 301 West Osborn, Suite 3500, Phoenix, AZ 85013, Telephone

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- (602) 870-7540. Design and Construction of Post-tensioned Slabs-on-Ground—1980.
- Prestressed Concrete Institute, 175 West Jackson Boulevard, Suite 1859, Chicago, IL 60604, Telephone (312) 786-0353.
- PCI MNL 116 Manual for Quality Control for Plants and Production for Precast Prestressed Concrete Products—1985
- PCI MNL 117 Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products—1977
- Resilient Floor Covering Institute, 966 Hungerford Drive, Suite 12-B, Rockville, MD 20850, Telephone (301) 340-8580. Recommended Installation Specifications for Vinyl Composition, Solid Vinyl and Asphalt Tile Floorings, 1987.
- Safety Glazing Certification Council, c/o ETL Testing Laboratories, Industrial Park, Route 11, Cortland, New York 13045, Telephone (607) 753-6711. Certified Products Directory—1990.
- Southern California Association of Cabinet Manufacturers, 1933 South Broadway, L. 39, Los Angeles, CA 90007, Telephone (213) 749-4355. Certified Construction Standards and Specifications, Guide for Uniform Cabinet Specifications—1973 (Revised 1985).
- Steel Door Institute, 30200 Detroit Road, Cleveland, OH 44145, Telephone (216) 899-0010. ANSI/SDI A123.1-82 Nomenclature for Steel Doors and Steel Door Frames.
- Tile Council of America, Inc., Box 326, Princeton, NJ 08542-0326, Telephone (609) 921-7050. Handbook for Ceramic Tile Installation—1993.
- Underwriters Laboratories, 333 Pfingsten Road, Northbrook, IL 60062, Telephone (708) 272-8800. Electrical Appliance and Utilization Equipment Directory, 1992.
- Water Quality Association, 4151 Naperville Road, Lisle, IL 60532. Telephone (708) 396-1600.
- WQA S-100 Household Commercial and Portable Exchange Water Softeners—1985
- WQA S-200 Household and Commercial Water Filters—1988
- WQA S-300 Point-of-Use, Low Pressure Reverse Osmosis Drinking Water Systems—1984
- WQA S-400 Point-of-Use Distillation Drinking Water Systems—1986
- Wood Moulding and Millwork Producers, P.O. Box 25278, Portland, OR 97225, Telephone (503) 292-9288.
- WM 3-79 Exterior Wood Door Frames

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